STRUCTURE 175

This structure is a triple-barreled, reinforced concrete pipe culvert, located on the Levee 31W borrow canal about 1 and 1/2 miles north of State Road 27. Control is effected by manually operated sluice gates mounted on a reinforced concrete head structure.

PURPOSE

This structure is closed under IOP.

OPERATION

This structure will be operated as directed by the Corps of Engineers.

FLOOD DISCHARGE CHARACTERISTICS

	Design	Standard Project Flood
Discharge Rate	500 cfs	500 cfs
	40 % SPF	100 % SPF
Headwater Elevation	5.0* feet	6.0* feet
Tailwater Elevation	4.5* feet	5.5* feet
Type Discharge	controlled submerged	submerged

*Some question of stages because later Corps' studies of C-111 raised the stage below S-18C 0.7 feet above the stage given in studies which gave stages shown for S-175.

DESCRIPTION OF STRUCTURE

Type: Reinforced concrete pipe culvert with upstream control

Number of barrels: 3

Size of barrel: 84 inches

Length of barrel: 56 feet

Flow line elevation: -5.0 feet

Service bridge elevation: 14.0 feet

Water level which will by-pass structure 9.0

Control Structure: reinforced concrete headwall

Gates

Number: 3

Type: sluice gate mounted on structure at upstream end of culvert

Revised 4/07/03

Size 84" in diameter

Control automatic, on-site upstream control, remote control by C&CS

Lifting Mechanism

Type pedestal mounted, manually operated hoist

ACCESS: from U.S. Highway 27 via access road on east berm of L-31W Borrow Canal

HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Water Level On-site digital recorder at upstream and downstream

Gate Position Recorder On-site digital recorder

DEWATERING FACILITIES None